

them belong on the one side to a cell of a certain age, on the other to a cell of the preceding cycle.

The fact is proved by the development of the intestiniform masses borne by the free margins of the partitions in the ventral cavity. The six first pairs of bundles are developed on the twelve partitions, which bound the six primitive cells, corresponding to the six first tentacles; six other pairs are then developed upon the twelve dissepiments of the six cells of the second cycle; and afterwards twelve pairs appear on the twenty-four partitions of the third cycle. It is easy to see that the nearer the bundles approach the centre, the older they are.

All the work of division appears to go on in the central portion of the embryo, whilst the envelope, which forms a regular cutaneous layer, is gradually enlarged without taking any part in the formation of the partitions.—*Comptes Rendus*, August 28, 1854, p. 434.

METEOROLOGICAL OBSERVATIONS FOR NOV. 1854.

Chiswick.—November 1. Dense fog: very fine. 2. Foggy: hazy: very fine. 3. Fine: clear. 4. Overcast: fine. 5. Cloudy. 6. Clear and very fine. 7. Foggy: cloudy. 8. Overcast: fine. 9. Clear and cold: sharp frost: rain. 10. Fine, but cold: rain. 11. Slight rain: cloudy: fine. 12. Fine: frosty at night. 13. Foggy: fine. 14. Densely clouded: heavy rain. 15. Heavy rain: fine: rain. 16. Rain: foggy at night. 17. Foggy: rain: overcast. 18. Densely overcast and windy. 19. Overcast: clear and cold. 20. Cloudy: clear and cold: fine. 21. Overcast. 22. Clear: densely clouded: clear. 23. Fine: cloudy: sharp frost. 24, 25. Cloudy and cold. 26. Clear: overcast. 27. Foggy. 28. Overcast: rain. 29. Cloudy and fine. 30. Clear: rain at night.

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| Mean temperature of the month | 39° 35 |
| Mean temperature of Nov. 1853 | 40 14 |
| Mean temperature of Nov. for the last twenty-eight years ... | 43 07 |
| Average amount of rain in Nov. | 2 38 inches. |

Boston.—Nov. 1. Fine. 2. Cloudy. 3. Fine. 4. Fine: rain P.M. 5. Cloudy. 6, 7. Fine. 8. Cloudy. 9. Fine: snow and rain A.M. and P.M. 10. Fine: rain P.M. 11. Fine. 12. Fine: rain P.M. 13. Cloudy. 14. Cloudy: rain A.M. 15, 16. Rain A.M. and P.M. 17. Rain A.M. 18. Cloudy: rain P.M. 19. Fine: rain A.M. and P.M. 20. Cloudy. 21. Cloudy: rain A.M. and P.M. 22, 23. Cloudy. 24, 25. Cloudy: rain A.M. and P.M. 26, 27. Fine. 28. Cloudy: rain P.M. 29. Fine rain A.M. 30. Cloudy.

Sandwick Manse, Orkney.—Nov. 1. Showers A.M.: cloudy P.M. 2. Rain A.M.: clear P.M. 3. Bright A.M.: showers P.M. 4. Cloudy A.M.: rain P.M. 5. Cloudy A.M. and P.M. 6. Cloudy A.M.: showers P.M. 7. Showers A.M. and P.M. 8. Showers A.M.: snow-showers P.M. 9. Snow-showers A.M.: sleet-showers P.M. 10, 11. Cloudy A.M.: clear P.M. 12, 13. Cloudy A.M. and P.M. 14. Cloudy A.M.: cloudy, drops P.M. 15. Showers A.M. and P.M. 16. Showers A.M.: rain P.M. 17. Drizzle A.M.: damp P.M. 18. Fine, cloudy A.M.: showers P.M. 19. Fine, cloudy A.M.: clear P.M. 20. Damp A.M.: showers P.M. 21. Showers A.M. and P.M. 22. Rain A.M.: showers, aurora P.M. 23. Clear, frost A.M.: snow-showers frost P.M. 24. Snow A.M. and P.M. 25. Snow, thaw A.M.: thaw, rain P.M. 26. Fog A.M.: cloudy P.M. 27. Cloudy A.M.: showers, sleet P.M. 28. Showers A.M. and P.M. 29. Showers A.M.: sleet-showers P.M. 30. Clear A.M.: sleet-showers P.M.

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| Mean temperature of Nov. for twenty-seven previous years . | 42° 67 |
| Mean temperature of this month | 42 05 |
| Mean temperature of Nov. 1853 | 44 87 |
| Average quantity of rain in Nov. for thirteen previous years | 4 25 inches. |